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(71)Applicant: TOAGOSEI CO LTD

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(54) ACTIVE ENERGY BEAM-CURING TYPE COMPOSITION FOR PRIMARY COATING OF OPTICAL FIBER

(57) Abstract:

PURPOSE: To obtain the subject composition having excellent curing property and giving a cured film having excellent heat resistance, hydrolysis resistance, water absorption resistance and low tensile elastic modulus, comprising a compound having an oxetane ring and a photo-cationic polymerization initiator.

CONSTITUTION: The objective active energy beam—curing type composition for primary coating of an optical fiber having excellent curing property and giving a cured film having excellent resistances, against heat, hydrolysis and water absorption, etc., is obtained by mixing a compound having 1-4 pieces of oxetane rings expressed by formula I (R1 is H or a 1-6C alkyl; R2 is a 1-6C alkyl), formula II [R3 is an alkylene, a poly(alkyleneoxy) or carbonyl, etc.] and formula III (R9 is a trifunctional or a tetrafunctional organic group; (j) is 3 or 4), etc., with a photocationic polymerization initiator (e.g. benzophenone), and further, as necessary adding at least

1), O—R⁹

one kind among a compound having an epoxy group, a compound having a vinyl ether group and a compound having (meth) acryloyl group, etc.

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